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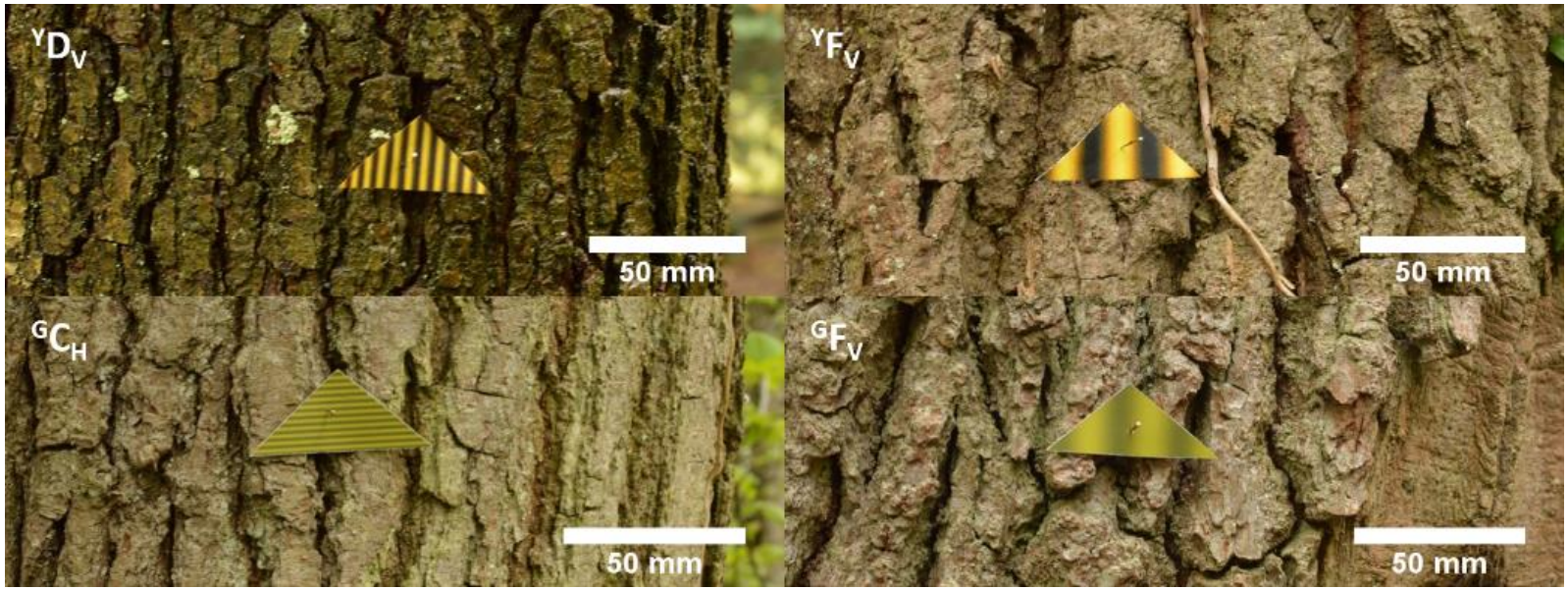

Figure S1

Example stimuli *in situ* on oak bark

Top: Yellow-and-black stripes. Left: $^{Y}D_{V}$ (2.30 cycles/cm); Right: $^{Y}F_{V}$ (0.57 cycles/cm).

Bottom: Olive-and-black stripes. Left: $^{G}C_{H}$ (4.60 cycles/cm); Right: $^{G}F_{V}$ (0.57 cycles/cm).

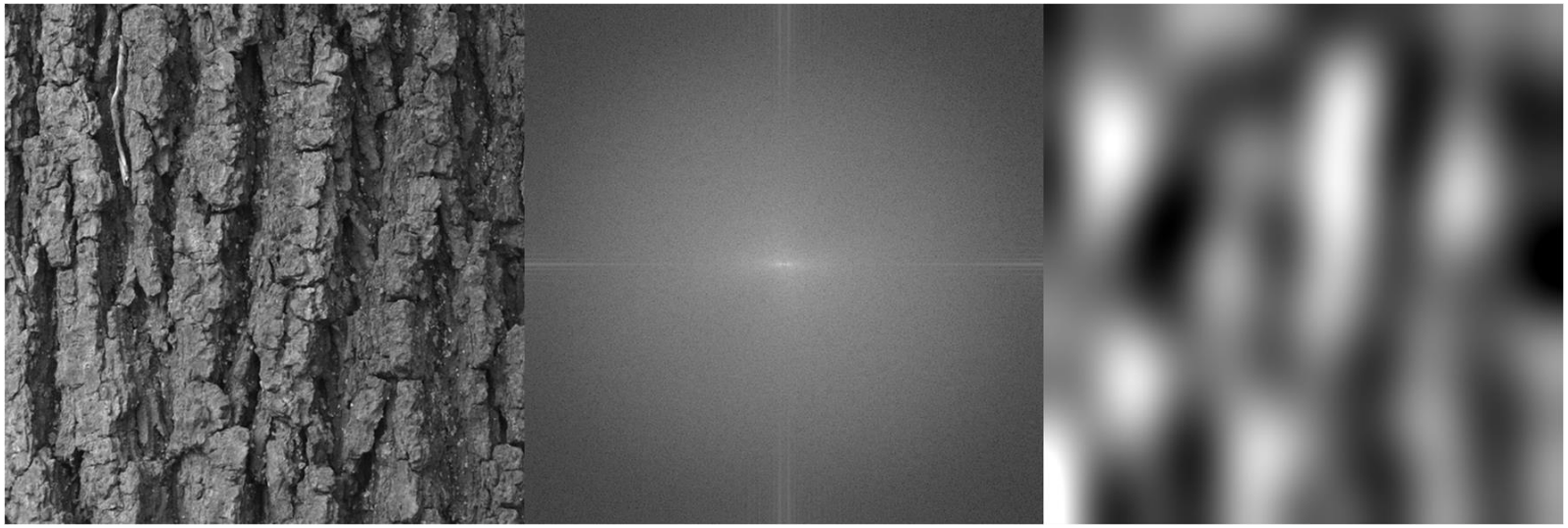

Figure S2

Left: 8-bit grey-scale image of oak bark calibrated to represent the relative photon catch of blue tit (*Cyanistes caeruleus* Paridae) double cones (achromatic contrast).

Middle: Discrete Fast Fourier Transform (FFT) amplitude components (lower spatial frequencies in centre and orientation represented by polar angle). Higher spectral power is concentrated in horizontal and vertical planes (indicated by lighter shades – image maximum spectral power = 140 px in the horizontal plane = 112 mm vertical bark ridges).

Right: Bandpass filter of image at the highest spectral power from FFT (140 px = 112 mm).